

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Cancelled).
2. (Currently Amended) The microphone according to claim [[1]] 17, comprising a diaphragm installed on the surface of the skin and a sucker that sticks to the diaphragm.
3. (Currently Amended) The microphone according to claim [[1]] 17 or 2, which is integrated with a head-installed object such as glasses, a headphone, a supra-aural earphone, a cap, or a helmet which is installed on the human head.
4. (Currently Amended) A communication interface system comprising the microphone according to claim [[1]] 17 and a signal processing apparatus that processes a signal sampled through the microphone,

 wherein a result of processing by the signal processing apparatus is used

 for communications.
5. (Original) The communication interface system according to claim 4, wherein the signal processing apparatus includes an analog digital converting section that quantizes a signal sampled through the microphone, a processor section that processes a result of the quantization by the analog digital converting section, and a transmission section that transmits a result of the processing by the processor section to an external apparatus.

6. (Original) The communication interface system according to claim 4, wherein the signal processing apparatus includes an analog digital converting section that quantizes a signal sampled through the microphone and a transmission section that transmits a result of the quantization by the analog digital converting section to an external apparatus and in that the external apparatus processes the result of the quantization.
7. (Original) The communication interface system according to claim 5, wherein the signal processing apparatus includes an analog digital converting section that quantizes a signal sampled through the microphone, a processor section that processes a result of the quantization by the analog digital converting section, and a speech recognition section that executes a speech recognition process on a result of the processing by the processor section.
8. (Original) The communication interface system according to claim 7, further comprising a transmission section that transmits a result of the speech recognition by the speech recognition section to an external apparatus.
9. (Original) The communication interface system according to claim 5, wherein an apparatus in a mobile telephone network executes a speech recognition process on the result of the processing by the processor section, the result being transmitted by the transmitting section.
10. (Original) The communication interface system according to claim 5, wherein the signal processing executed by the signal processing apparatus is a modulating process in which the process section modulates the signal into an audible sound.

11. (Currently Amended) The communication interface system according to claim 10, wherein the modulating process applies a fundamental frequency of ~~the~~ vocal cords to the non-audible ~~murmur~~ sounds to convert the non-audible ~~murmur~~ sounds into an audible sound involving ~~the~~ regular vibration of ~~the~~ vocal cords.
12. (Currently Amended) The communication interface system according to claim 10, wherein the modulating process converts a spectrum of the non-audible ~~murmur~~ sounds not involving ~~the~~ regular vibration of ~~the~~ vocal cords into a spectrum of an audible sound uttered using the regular vibration of the vocal cords.
13. (Currently Amended) The communication interface system according to claim 12, wherein the modulating process uses the spectrum of the non-audible ~~murmur~~ sounds and a speech recognition apparatus to recognize phonetic units such as syllables, semi-syllables, phonemes, two-juncture phonemes, and three-juncture phonemes and uses a speech synthesis technique to convert the phonetic units recognized into an audible sound uttered using the regular vibration of the vocal cords.
14. (Previously Presented) The communication interface system according to any one of claims 4 to 13, wherein an input gain is controlled in accordance with a magnitude of a dynamic range of a sound sampled through the microphone.
15. (Currently Amended) The communication interface system according to claim 7 or 8, wherein the speech recognition section appropriately executes speech recognition utilizing an acoustic model of at least one of the non-audible ~~murmur~~ sounds, a whisper which is audible but is uttered without regularly vibrating ~~the~~

vocal cords, a sound uttered by regularly vibrating the vocal cords and including a low voice or a murmur, and various sounds such as a teeth gnashing sound and a tongue clucking sound.

16. (Currently Amended) A signal processing apparatus that processes a signal sampled through the microphone according to claim ~~[[1]]~~ 17.
17. (New) A communication device for sampling non-audible sounds generated by a person, comprising:
 - a microphone; and
 - a positioning structure coupled to the microphone, the positioning structure positioning the microphone on a surface of skin over a sternocleidomastoid muscle below a mastoid of the person so as to detect non-audible vibrations transmitted through flesh of the person and conducted through the skin.
18. (New) A communication device for sampling non-audible sounds generated by a person, comprising:
 - a diaphragm having an adhesive surface for adhesive attachment to skin of the person;
 - a suction member removably attached to the diaphragm so as to form a chamber interior of the suction member and the diaphragm; and
 - a microphone attached to the suction member and disposed so as to generate electrical signals corresponding to vibrations induced in

the chamber by vibrations transmitted through the diaphragm from
the skin.

19. (New) A method for detecting non-audible sounds generated by a person,
comprising:

attaching a microphone on a surface of skin over a sternocleidomastoid
muscle below a mastoid of the person; and

generating an electrical signal from the microphone corresponding to
vibrations generated by the person and conducted through the skin.

20. (New) The communication device according to claim 17, wherein the non-audible
sounds include a murmur and a respiratory sound.